

Please replace the paragraph at page 6, lines 10-12, with the following **amended** paragraph:

(g) a polynucleotide comprising the nucleotide sequence of the mature protein-coding sequence of clone S1-3 deposited under accession number ATCC 98338;

Please replace the paragraph at page 7, lines 5-9, with the following **amended** paragraph:

Preferably, such polynucleotide comprises the nucleotide sequence of SEQ ID NO:2 from nucleotide 12 to nucleotide 1213; the nucleotide sequence of the full-length protein-coding sequence of clone S1-3 deposited under accession number ATCC 98338; or the nucleotide sequence of the mature protein-coding sequence of clone S1-3 deposited under accession number ATCC 98338.

Please replace the paragraph that extends from page 22, line 18 to page 23, line 6, with the following **amended** paragraph:

The sequence of a polynucleotide encoding one such chimeric polypeptide including an SDF-1 $\alpha$  domain is set forth in SEQ ID NO:2, with the protein-coding sequence (including introns) extending from nucleotide 12 to 1213. This polynucleotide has been identified as S1-2 or S1-3, the DNA sequences of these two constructs appearing to be identical. The amino acid sequence of the chimeric polypeptide encoded by S1-2 and S1-3 is set forth in SEQ ID NO:1. The chimeric polypeptide encoded by S1-2 and S1-3 is 328 amino acids in length, with the mature polypeptide produced by cleavage of the secretory leader sequence beginning at amino acid 20, 21 or 22 of SEQ ID NO:1, depending on how the polypeptide is processed. The polynucleotide construct S1-3 was deposited with the American Type Culture Collection on February 28, 1997 and given the accession number 98338.

Please replace the paragraph at page 7, lines 19-21, with the following **amended** paragraph:

(d) a polynucleotide comprising the nucleotide sequence of the full-length protein-coding sequence of clone SK2-2 deposited under accession number ATCC 98339;

Please replace the paragraph at page 8, lines 1-3, with the following **amended** paragraph:

(e) a polynucleotide comprising the nucleotide sequence of the mature protein-coding sequence of clone SK-2 deposited under accession number ATCC 98339;

Please replace the paragraph at page 8, lines 16-20, with the following **amended** paragraph:

Preferably, such polynucleotide comprises the nucleotide sequence of SEQ ID NO:4 from nucleotide 12 to nucleotide 1207; the nucleotide sequence of the full-length protein-coding sequence of clone SK2-2 deposited under accession number ATCC 98339; or the nucleotide sequence of the mature protein-coding sequence of clone SK2-2 deposited under accession number ATCC 98339.

Please replace the paragraph at page 23, lines 7-19, with the following **amended** paragraph:

The sequence of a polynucleotide encoding another such chimeric polypeptide that includes a domain derived from SDF-1 $\alpha$  domain is set forth in SEQ ID NO:4, with the protein-coding sequence (including introns) extending from nucleotide 12 to 1207. This polynucleotide has been identified as SK2-2. The amino acid sequence of the chimeric polypeptide encoded by SK2-2 is set forth in SEQ ID NO:3. The chimeric polypeptide encoded by SK2-2 is 326 amino acids in length, with the mature polypeptide produced by cleavage of the secretory leader sequence beginning at amino acid 20 of SEQ ID NO:3. The polypeptide encoded by SK2-2 differs from that encoded by S1-2 and S1-3 in that two amino acids have been deleted from the SK2-2 sequence so that cleavage of the secretory leader sequence is predicted to always produce a product beginning at amino acid 20 of SEQ ID NO:3. The polynucleotide construct SK2-2 was

deposited with the American Type Culture Collection on February 28, 1997 and given the accession number 98339.

Please replace the paragraph at page 9, lines 13-15, with the following **amended** paragraph:

(e) a polynucleotide comprising the nucleotide sequence of the full-length protein-coding sequence of clone MP-2 deposited under accession number ATCC 98342;

Please replace the paragraph at page 10, lines 1-3, with the following **amended** paragraph:

(h) a polynucleotide comprising the nucleotide sequence of the mature protein-coding sequence of clone MP-2 deposited under accession number ATCC 98342;

Please replace the paragraph at page 9, lines 16-18, with the following **amended** paragraph:

(f) a polynucleotide comprising the nucleotide sequence of the full-length protein-coding sequence of MP-6 deposited under accession number ATCC 98340;

Please replace the paragraph at page 10, lines 4-6, with the following **amended** paragraph:

(i) a polynucleotide comprising the nucleotide sequence of the full-length protein-coding sequence of MP-6 deposited under accession number ATCC 98340;

Please replace the paragraph that extends from page 10, line 19 to page 11, line 3, with the following **amended** paragraph:

Preferably, such polynucleotide comprises the nucleotide sequence of SEQ ID NO:6 from nucleotide 15 to nucleotide 1225; the nucleotide sequence of the full-length protein-coding sequence of clones MP-1, MP-2, and MP-6 deposited under accession numbers ATCC 98431, ATCC 98432, and ATCC 98430, respectively; or the nucleotide sequence of the mature protein-coding of clones MP-1, MP-2, and MP-6 deposited under accession numbers ATCC 98431, ATCC 98432, and ATCC 98430, respectively.

Please replace the paragraph at page 15, lines 19-22, with the following **amended** paragraph:

(a) combining a composition comprising a chimeric polypeptide with a composition comprising molecules to be tested for interaction, forming a first mixture;

Please replace the paragraph that extends from page 23, line 20 to page 24, line 10, with the following **amended** paragraph:

The sequence of a polynucleotide encoding a chimeric polypeptide that includes an MIP-1 $\alpha$  domain is set forth in SEQ ID NO:6, with the protein-coding sequence (including introns) extending from nucleotide 15 to 1225. This polynucleotide is identified as MP-1. The DNA sequence of MP-1 has been determined , and while the DNA sequences of MP-2 and MP-6 are anticipated to be identical to that of MP-1, these clones may contain some PCR-generated DNA sequence alterations. The amino acid sequence of the chimeric polypeptide encoded by MP-1, and presumably encoded by MP-2 and MP-6, is set forth in SEQ ID NO:5. The chimeric polypeptide encoded by MP-1 is 331 amino acids in length, with the mature polypeptide produced by cleavage of the secretory leader sequence beginning at amino acid 23 of SEQ ID NO:5. The polynucleotide constructs MP-1, MP-2, and MP-6 were deposited with the American Type Culture Collection on February 28, 1997 and given the accession numbers ATCC 98431, ATCC 98432, and ATCC 98430 respectively.

In the Claims:

Please cancel claims 1-56 in the submitted parent application and insert the following new claims.

57. (New) A composition comprising a chimeric polypeptide, the chimeric polypeptide comprising at least one chemokine polypeptide covalently attached to at least one heterologous polypeptide, wherein the heterologous polypeptide is an Fc polypeptide, wherein the chemokine polypeptide comprises an amino acid sequence selected from the group consisting of:

- (aa) SEQ ID NO:1;
- (ab) SEQ ID NO:1 from amino acid 20 to amino acid 328;
- (ac) SEQ ID NO:1 from amino acid 21 to amino acid 328;
- (ad) SEQ ID NO:1 from amino acid 22 to amino acid 328;
- (ae) SEQ ID NO:3; and
- (af) SEQ ID NO:3 from amino acid 20 to amino acid 326.

58. (New) The composition of claim 57 wherein the chimeric polypeptide comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:1;
- (b) the amino acid sequence of SEQ ID NO:1 from amino acid 20 to amino acid 328; and,
- (c) The amino acid sequence of SEQ ID NO:1 from amino acid 22 to amino acid 328.

59. (New) The composition of claim 57 wherein the chemokine polypeptide comprises an amino acid sequence selected from the group consisting of:

- (a) the amino acid sequence of SEQ ID NO:3; and,
- (b) the amino acid sequence of SEQ ID NO:3 from amino acid 20 to amino acid 326.

60. (New) The composition of claim 57 wherein the chemokine polypeptide comprises the amino acid sequence of SEQ ID NO:1.

61. (New) The composition of claim 57 wherein the chemokine polypeptide comprises the amino acid sequence of SEQ ID NO:3.

62. (New) The composition of claim 57, further comprising a pharmaceutically acceptable carrier.

63. (New) The composition of claim 56 wherein the chemokine polypeptide comprises SEQ ID NO:1 from amino acid 20 to amino acid 328.

64. (New) The composition of claim 57 wherein the chemokine polypeptide comprises SEQ ID NO:1 from amino acid 21 to amino acid 328.

65. (New) The composition of claim 57 wherein the chemokine polypeptide comprises SEQ ID NO:1 from amino acid 22 to amino acid 328.

66. (New) The composition of claim 57 wherein the chemokine polypeptide comprises SEQ ID NO:3 from amino acid 20 to amino acid 326.

67. (New) A polypeptide produced according to a process comprising:

(a) growing a culture of a host cell in a suitable culture medium, wherein the host cell has been transformed with a polynucleotide comprising at least one expression control sequence, wherein the polynucleotide encodes a chimeric polypeptide, the chimeric polypeptide comprising at least one chemokine polypeptide covalently attached to at least one heterologous polypeptide, wherein the heterologous polypeptide is an Fc polypeptide, wherein the chemokine polypeptide comprises an amino acid sequence selected from the group consisting of:

- (aa) SEQ ID NO:1;
- (ab) SEQ ID NO:1 from amino acid 20 to amino acid 328;
- (ac) SEQ ID NO:1 from amino acid 21 to amino acid 328;
- (ad) SEQ ID NO:1 from amino acid 22 to amino acid 328;
- (ae) SEQ ID NO:3; and
- (af) SEQ ID NO:3 from amino acid 20 to amino acid 326, and,

(b) purifying said polypeptide from the culture.

68. (New) The polypeptide of claim 67 wherein the chemokine polypeptide comprises SEQ ID NO:1.

69. (New) The polypeptide of claim 67 wherein the chemokine polypeptide comprises SEQ ID NO:1 from amino acid 20 to amino acid 328.

70. (New) The polypeptide of claim 67 wherein the chemokine polypeptide comprises SEQ ID NO:1 from amino acid 21 to amino acid 328.